

## AMENDMENTS

In the claims:

Please cancel claim 2.

Please amend claims 1, 4, and 8 as follows:

*Sub 1*

1. (Once amended) A method for analyzing a sample comprising:

- a) providing a sample containing at least two [one or more] molecular species, wherein at least one of the molecular species is capable of stimulating scintillation;
- b) providing a scintillating material, wherein the surface of the scintillating material adsorbs at least one of the molecular species via a general molecular property-based binding interaction between the molecular species and the scintillating material, and where the scintillating material can be stimulated to scintillate by at least one of the adsorbed molecular species, but is generally not stimulated to scintillate by any molecular species which is not adsorbed, where at least one of said molecular species has a presence of, an absence of, or a degree of general molecular property-based binding interaction with the scintillating material distinct from the remainder of the molecular species; and
- c) measuring the scintillation emitted by the scintillating material.

*Sub 2*

4. (Once amended) The method of claim [2] 1, wherein the presence of, the absence of, or the degree of general molecular property-based binding interaction with the scintillating material is due to a chemical or biochemical transformation of one of said molecular species into another of said molecular species, further comprising the step of determining the progress of or degree of completion of the molecular transformation.

*Sub 3*

8. (Once amended) The method of claim [2] 1, wherein at least one of the at least two molecular species provided is a substrate for an enzyme-catalyzed reaction or a series of enzyme-catalyzed reactions, another of the at least two molecular species is a product of the enzyme-catalyzed reaction or series of enzyme-catalyzed reactions and has a presence of, absence of, or degree of general molecular property-based binding affinity for the scintillating material distinct